

**ENVIDOR® CA** 

Version 4.0 / USA 102000011424 1/10 Revision Date: 10/26/2018 Print Date: 10/27/2018

# SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

Product identifier	
Trade name	ENVIDOR® CA
Product code (UVP)	06328725
SDS Number	102000011424
EPA Registration No.	264-831
Relevant identified uses of th	e substance or mixture and uses advised against
Use	Insecticide, Miticide
Restrictions on use	See product label for restrictions.
Information on supplier	
Supplier	Bayer CropScience 2 T.W. Alexander Drive Research Triangle PK, NC 27709 USA
Responsible Department	Email: SDSINFO.BCS-NA@bayer.com
Emergency telephone no.	
Emergency Telephone Number (24hr/ 7 days)	1-800-334-7577
Product Information Telephone Number	1-866-99BAYER (1-866-992-2937)

# **SECTION 2: HAZARDS IDENTIFICATION**

**Classification in accordance with regulation HCS 29CFR §1910.1200** Skin sensitisation, Carcinogenicity: Category 1B Reproductive toxicity, Specific target organ toxicity - repeated exposure: Category 2

### Labelling in accordance with regulation HCS 29CFR §1910.1200



Signal word: Danger

Hazard statements

May cause an allergic skin reaction. May cause cancer. Suspected of damaging fertility or the unborn child. May cause damage to organs through prolonged or repeated exposure.



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#### **Precautionary statements**

Do not breathe gas/ mist/ vapours/ spray. Contaminated work clothing should not be allowed out of the workplace. Wear protective gloves/ protective clothing/ eye protection/ face protection. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. IF ON SKIN: Wash with plenty of water/ soap. If skin irritation or rash occurs: Get medical advice/ attention. Specific measures (see supplemental first aid instructions on this label). Wash contaminated clothing before reuse. IF exposed or concerned: Get medical advice/ attention. Store locked up. Dispose of contents/container in accordance with local regulation.

### Hazards Not Otherwise Classified (HNOC)

No physical hazards not otherwise classified. No health hazards not otherwise classified.

### **SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS**

Hazardous Component Name	CAS-No.	Concentration % by weight
Spirodiclofen	148477-71-8	22.3

# **SECTION 4: FIRST AID MEASURES**

#### Description of first aid measures

General advice	When possible, have the product container or label with you when calling a poison control center or doctor or going for treatment.	
Inhalation	Move to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth if possible. Call a physician or poison control center immediately.	
Skin contact	Take off contaminated clothing and shoes immediately. Wash off immediately with plenty of water for at least 15 minutes. Call a physician or poison control center immediately.	
Eye contact	Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call a physician or poison control center immediately.	
Ingestion	Call a physician or poison control center immediately. Rinse out mouth and give water in small sips to drink. DO NOT induce vomiting unless directed to do so by a physician or poison control center. Never give anything by mouth to an unconscious person. Do not leave victim unattended.	
Most important symptoms and effects, both acute and delayed		
Symptoms	To date no symptoms are known.	



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### Indication of any immediate medical attention and special treatment needed

Treatment

There is no specific antidote. Appropriate supportive and symptomatic treatment as indicated by the patient's condition is recommended.

# **SECTION 5: FIREFIGHTING MEASURES**

Extinguishing media	
Suitable	Water, Dry chemical, Foam
Unsuitable	High volume water jet
Special hazards arising from the substance or mixture	In the event of fire the following may be released:, Hydrogen chloride (HCI), Carbon monoxide (CO)
Advice for firefighters	
Special protective equipment for firefighters	Firefighters should wear NIOSH approved self-contained breathing apparatus and full protective clothing.
Further information	Keep out of smoke. Fight fire from upwind position. Cool closed containers exposed to fire with water spray. Do not allow run-off from fire fighting to enter drains or water courses.
Flash point	Not relevant; aqueous solution
Auto-ignition temperature	No data available
Lower explosion limit	No data available
Upper explosion limit	No data available
Explosivity	Not applicable

# SECTION 6: ACCIDENTAL RELEASE MEASURES

#### Personal precautions, protective equipment and emergency procedures

Precautions	Keep unauthorized people away. Isolate hazard area. Avoid contact with spilled product or contaminated surfaces.	
Methods and materials for containment and cleaning up		
Methods for cleaning up	Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Collect and transfer the product into a properly labelled and tightly closed container. Clean contaminated floors and objects thoroughly, observing environmental regulations.	
Additional advice	Use personal protective equipment. If the product is accidentally spilled, do not allow to enter soil, waterways or waste water canal.	



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#### **Reference to other sections** Information regarding safe handling, see section 7. Information regarding personal protective equipment, see section 8. Information regarding waste disposal, see section 13.

### **SECTION 7: HANDLING AND STORAGE**

#### Precautions for safe handling

Advice on safe handling	Use only in area provided with appropriate exhaust ventilation. Handle and open container in a manner as to prevent spillage.	
Hygiene measures	Wash hands thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco, using the toilet or applying cosmetics. Remove Personal Protective Equipment (PPE) immediately after handling this product. Before removing gloves clean them with soap and water. Remove soiled clothing immediately and clean thoroughly before using again. Wash thoroughly and put on clean clothing.	
Conditions for safe storage, including any incompatibilities		
Requirements for storage areas and containers	Store in a cool, dry place and in such a manner as to prevent cross contamination with other crop protection products, fertilizers, food, and feed. Store in original container and out of the reach of children, preferably in a locked storage area. Protect from freezing.	

# SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

#### **Control parameters**

Components	CAS-No.	Control parameters	Update	Basis
Spirodiclofen	148477-71-8	0.39 mg/m3 (SK-SEN)		OES BCS*

\*OES BCS: Internal Bayer AG, Crop Science Division "Occupational Exposure Standard"

#### **Exposure controls**

#### Personal protective equipment

In normal use and handling conditions please refer to the label and/or leaflet. In all other cases the following recommendations would apply.

Respiratory protection	When respirators are required, select NIOSH approved equipment based on actual or potential airborne concentrations and in accordance with the appropriate regulatory standards and/or industry recommendations.
Hand protection	Chemical resistant nitrile rubber gloves
Eye protection	Safety glasses with side-shields
Skin and body protection	Wear long-sleeved shirt and long pants and shoes plus socks.
General protective measures	Follow manufacturer's instructions for cleaning/maintaining PPE. If

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no such instructions for washables, use detergent and warm/tepid water. Keep and wash PPE separately from other laundry.

# SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	white to beige
Physical State	suspension
Odor	slight
Odour Threshold	No data available
рН	4.0 - 6.0 (100 %) (23 °C)
Vapor Pressure	No data available
Vapor Density (Air = 1)	No data available
Density	1.09 g/cm <sup>3</sup> (20 °C)
Evaporation rate	No data available
Boiling Point	No data available
Melting / Freezing Point	-17.8 °C / 0.04- °F
Water solubility	miscible
Minimum Ignition Energy	Not applicable
Decomposition temperature	Not applicable
Partition coefficient: n- octanol/water	No data available
Viscosity	250 - 350 mPa.s ( 20 °C) Velocity gradient 20 /s 80 - 120 mPa.s ( 20 °C) Velocity gradient 100 /s 700 - 1,000 cps ( 25 °C)
Flash point	Not relevant; aqueous solution
Auto-ignition temperature	No data available
Lower explosion limit	No data available
Upper explosion limit	No data available
Explosivity	Not applicable

# SECTION 10: STABILITY AND REACTIVITY

Reactivity	
Thermal decomposition	Not applicable
Chemical stability	Stable under normal conditions.



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Possibility of hazardous reactions	No dangerous reaction known under conditions of normal use.
Conditions to avoid	Extremes of temperature and direct sunlight.
Incompatible materials	No data available
Hazardous decomposition products	No decomposition products expected under normal conditions of use.

### SECTION 11: TOXICOLOGICAL INFORMATION

Exposure routes Immediate Effects	Skin contact, Ingestion, Eye contact	
Skin	Harmful if absorbed through skin. May cause sensitisation by skin contact.	
Ingestion	Harmful if swallowed.	
Information on toxicological effects		
Acute oral toxicity	LD50 (male/female combined Rat) > 2,000 mg/kg	
Acute inhalation toxicity	LC50 (male/female combined Rat) > 3.146 mg/l Exposure time: 4 h Determined in the form of liquid aerosol. Highest attainable concentration.	
Acute dermal toxicity	LD50 (male/female combined Rat) > 4,000 mg/kg	
Skin corrosion/irritation	No skin irritation (Rabbit)	
Serious eye damage/eye irritation	No eye irritation (Rabbit)	
Respiratory or skin sensitisation	Skin: Sensitising (Guinea pig) OECD Test Guideline 406, Magnusson & Kligman test	

#### Assessment STOT Specific target organ toxicity - repeated exposure

Spirodiclofen : May cause damage to organs through prolonged or repeated exposure.

#### Assessment mutagenicity

Spirodiclofen was not mutagenic or genotoxic in a battery of in vitro and in vivo tests.

#### Assessment carcinogenicity

Spirodiclofen caused at high dose levels an increased incidence of tumours in mice in the following organ(s): Liver.

Spirodiclofen caused at high dose levels an increased incidence of tumours in rats in the following organ(s): uterus, Testes. The tumours seen with Spirodiclofen were caused through a non-genotoxic mechanism, which is not relevant at low doses. The mechanism that triggers tumours in rodents is not relevant for the low exposures encountered under normal use conditions. Spirodiclofen: May cause cancer.

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### ACGIH

None.

NTP

None.

IARC

None.

### OSHA

None.

#### Assessment toxicity to reproduction

Spirodiclofen: is suspected to affect male reproductive function. Spirodiclofen did not cause reproductive toxicity in a two-generation study in rats.

#### Assessment developmental toxicity

Spirodiclofen did not cause developmental toxicity in rats and rabbits.

#### **Further information**

Only acute toxicity studies have been performed on the formulated product. The non-acute information pertains to the active ingredient(s).

# SECTION 12: ECOLOGICAL INFORMATION

Toxicity to fish	LC50 (Oncorhynchus mykiss (rainbow trout)) > 0.035 mg/l Exposure time: 96 h The value mentioned relates to the active ingredient spirodiclofen. No acute toxicity was observed at its limit of water solubility.
Chronic toxicity to fish	Oncorhynchus mykiss (rainbow trout) Early-life Stage NOEC: 0.00195 mg/l Exposure time: 97 d The value mentioned relates to the active ingredient spirodiclofen.
Toxicity to aquatic invertebrates	EC50 (Daphnia magna (Water flea)) > 0.045 mg/l Exposure time: 48 h The value mentioned relates to the active ingredient spirodiclofen. No acute toxicity was observed at its limit of water solubility.
Toxicity to aquatic plants	IC50 (Raphidocelis subcapitata (freshwater green alga)) > 0.06 mg/l Growth rate; Exposure time: 72 h The value mentioned relates to the active ingredient spirodiclofen. No acute toxicity was observed at its limit of water solubility.
Biodegradability	Spirodiclofen: Not rapidly biodegradable

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Кос	Spirodiclofen: Koc: 31097
Bioaccumulation	Spirodiclofen: Bioconcentration factor (BCF) 491 Does not bioaccumulate.
Mobility in soil	Spirodiclofen: Immobile in soil
Environmental precautions	Do not allow to get into surface water, drains and ground water. Do not contaminate surface or ground water by cleaning equipment or disposal of wastes, including equipment wash water. Do not apply when weather conditions favor runoff or drift. Do not apply this product or allow it to drift to blooming crops or weeds if bees are visiting the treatment area. Apply this product as specified on the label.

# SECTION 13: DISPOSAL CONSIDERATIONS

#### Waste treatment methods

Product	Follow container label instructions for disposal of wastes generated during use in compliance with the product label. Dispose in accordance with all local, state/provincial and federal regulations.
Contaminated packaging	Triple rinse containers. Puncture container to avoid re-use. Dispose of empty container in a sanitary landfill or by incineration, or, if allowed by State/Provincial and local authorities, by burning. If burned, stay out of smoke.
RCRA Information	Characterization and proper disposal of this material as a special or hazardous waste is dependent upon Federal, State and local laws and are the user's responsibility. RCRA classification may apply.

### **SECTION 14: TRANSPORT INFORMATION**

49CFR	Not dangerous goods / not hazardous material
IMDG UN number Class Packaging group Marine pollutant Proper shipping name	<b>3082</b> 9 III YES ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (SPIRODICLOFEN SOLUTION)
<b>IATA</b> UN number Class	<b>3082</b> 9



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Packaging group Environm. Hazardous Mark Proper shipping name III YES ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (SPIRODICLOFEN SOLUTION )

This transportation information is not intended to convey all specific regulatory information relating to this product. It does not address regulatory variations due to package size or special transportation requirements.

### **SECTION 15: REGULATORY INFORMATION**

**EPA Registration No.** 264-831 **US Federal Regulations TSCA** list Glycerine 56-81-5 US. Toxic Substances Control Act (TSCA) Section 12(b) Export Notification (40 CFR 707, Subpt D) Not applicable. SARA Title III - Section 302 - Notification and Information None. SARA Title III - Section 313 - Toxic Chemical Release Reporting None. **US States Regulatory Reporting** CA Prop65 This product contains a chemical known to the State of California to cause cancer. Spirodiclofen 148477-71-8

This product does not contain any substances known to the State of California to cause reproductive harm.

#### **US State Right-To-Know Ingredients**

Glycerine	56-81-5	MN, RI

#### **EPA/FIFRA** Information:

This chemical is a pesticide product registered by the Environmental Protection Agency and is subject to certain labeling requirements under federal pesticide law. These requirements differ from the classification criteria and hazard information required for safety data sheets, and for workplace labels of non-pesticide chemicals. Following is the hazard information required on the pesticide label:

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 Signal word:
 Caution!

 Hazard statements:
 Harmful if swallowed or absorbed through skin. Do not get in eyes, on skin, or on clothing. Prolonged or frequently repeated skin contact may cause allergic reactions in some individuals. Wash thoroughly with soap and water after handling.

### **SECTION 16: OTHER INFORMATION**

#### Abbreviations and acronyms

49CFR	Code of Federal Regulations, Title 49
ACGIH	US. ACGIH Threshold Limit Values
ATE	Acute toxicity estimate
CAS-Nr.	Chemical Abstracts Service number
CERCLA	Comprehensive Environmental Response, Compensation, and Liability Act
EINECS	European inventory of existing commercial substances
ELINCS	European list of notified chemical substances
IARC	International Agency for Research on Cancer
IATA	International Air Transport Association
IMDG	International Maritime Dangerous Goods
N.O.S.	Not otherwise specified
NTP	US. National Toxicology Program (NTP) Report on Carcinogens
OECD	Organization for Economic Co-operation and Development
TDG	Transportation of Dangerous Goods
TWA	Time weighted average
UN	United Nations
WHO	World health organisation

NFPA 704 (National Fire Protection Association):

Health - 1 Flammability - 1 Instability - 0

HMIS (Hazardous Materials Identification System, based on the Third Edition Ratings Guide)Health - 1Flammability - 1Physical Hazard - 0PPE -

Others - none

0 = minimal hazard, 1 = slight hazard, 2 = moderate hazard, 3 = severe hazard, 4 = extreme hazard

**Reason for Revision:** The following sections have been revised: Section 2: Hazards Identification. Section 3: Composition / Information on Ingredients. Updated due to new system and numbering scheme.

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